NO. 7032 P. 6/36

EXHIBIT A



UNITED STATES PATENT AND TRADEMARK OFFICE

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JUNE 29, 2004

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MYERS BIGEL SIBLEY & SAJOVEC ROBERET M. MEEKS P.O. BOX 37428 RALEIGH, NC 27627

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RECORDATION DATE: 11/17/2003

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NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MOON, JANG-WON

DOC DATE: 10/29/2003

ASSIGNOR:

KIM, SUNG-HOON

DOC DATE: 10/29/2003

ASSIGNOR:

KIM, KYOUNG-HO

DOC DATE: 10/29/2003

ASSIGNOR:

KIM, JOUNG-YEAL

DOC DATE: 10/29/2003

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DOC DATE: 10/29/2003

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P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.gov

014787/0903 PAGE 2

ASSIGNEE:

SAMSUNG ELECTRONICS CO., LTD. 416 MAETAN-DONG, PALDAL-GU SUWON-CITY, KYUNGKI-DO REPUBLIC OF KOREA

SERIAL NUMBER: 10715015 FILING DATE: 11/17/2003

PATENT NUMBER: ISSUE DATE: TITLE: VARIABLE-DELAY PRECHARGE CIRCUITS AND METHODS

MARY BENTON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

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MAR. 17. 2006 12:28PM "919-854-1401 MBS	S&SMAR 1 7 2006	NUNO. 7032 r. P. 9/36
	06-28-2004	
To: Commissioner for Patents: 11-17-03		Date: November 17, 2003
Please record the attached original documents of copy thereo	102734860	mey Docket No. 5649-1098
I. Name of conveying party(ies):	2. Name and address of receiving	g party(jes):
A. Jang-won Moon		8 L — 4 (145).
B. Sung-hoon Kim	Samsung Electronics Co., Ltd. 416 Mactan-dong, Paldal-gu	
C. Kyoung-ho Kim	Suwon-City, Kyungki-do	
D. Joung-yeal Kim	REPUBLIC OF KOREA	٧
E. Ho-young Song	TO A KOREA	*. S
Additional name(s) of conveying party(ies) anached? Yes X No		200
3. Nature of conveyance:		置 る。
X Assignment	[た - 臺
Marger	}`	
Security Agreement		
Change of Name		
Other		
Execution Date:		
A. October 29, 2003 B. October 29, 2003 C. October 29,	Additional access to the same	
2003 D. October 29, 2003 E. October 29, 2003	Additional nume(s) & address(cs) attach	d?Y⇔ <u>X</u> _N₀
Application Serial NoPatent No If this document is being filed together with a new applicable is: A. October 29, 2003 B. October 29, 2003 C. October 29.	on, the execution date of the application 2003 D. October 29, 2003 E. October 20, 2003	on ber 29, 2003
Additional numbers attached? Yes X No		
. Name and address of party to whom correspondence	6. Total number of applications and patents involved:l	
concerning document should be mailed:	6. Total number of applications as	nd patents involved:l
concerning document should be mailed:	7. Total fee (37 CFR 3.41)	
Robert M. Meeks	7. Total fee (37 CFR 3.41)X_ Enclosed	\$40.00
Robert M. Meeks Myers Bigel Sibley & Sajovac	7. Total fee (37 CFR 3.41)X_ Enclosed	\$40.00
Robert M. Meeks Myers Bigel Sibley & Sajovac P. O. Box 37428	7. Total fee (37 CFR 3.41)	\$40.00
Robert M. Meeks Myers Bigel Sibley & Sajovac	7. Total fee (37 CFR 3.41)X_ Enclosed	\$40.00 d to deposit account
Robert M. Meeks Myers Bigel Sibley & Sajovac P. O. Box 37428	7. Total fee (37 CFR 3.41) X Enclosed Authorized to be charge	\$40.00 d to deposit account
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Robert M. Meeks Myers Bigel Sibley & Sajovec P. O. Box 37428 Ralcigh NC 27627 DO NOT USE THIS SPACE Statement and signature To the best of my knowledge and belief, the foregoing inform of the original document. Robert M. Meeks #40,723 Name of Person Signing	7. Total fee (37 CFR 3.41) X Enclosed Authorized to be charge 8. Deposit account number: 50-02 nation is true and correct and any atta	\$40.00 d to deposit account 20 ched copy is a true copy

1/20/2003 RHRRIS1 00000076 10715015

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Attorney Docket 5649-1098

THIS ASSIGNMENT, made by us, Jang-won Moon, citizen of the Republic of Korea, residing at 404-805, Hangaram Silla Apt., Burim-dong, Dongan-gu, Anyang-city, Kyungki-do, Republic of Korea, Sung-hoon Kim, citizen of the Republic of Korea, residing at 101-304, Samsung Apt., Seohyun-dong (Sibeom danji), Bundang-gu, Sungnam-city, Kyungki-do, Republic of Korea, Kyoung-ho Kim, citizen of the Republic of Korea, residing at 813-1204, Hanshin Apt., Byukjeokgol 8-danji Apt., Youngtong-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea, Joung-yeal Kim, citizen of the Republic of Korea, residing at 201-1601, Woncheon Joogong 2-danji Apt., Woncheon-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea, and Ho-young Song, citizen of the Republic of Korea, residing at 1407, Marronier-dong, San 7-1, Nongseo-ri, Kiheung-eub, Yongin-city, Kyungki-do, Republic of Korea

ASSIGNMENT

WITNESSETH: That.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer and convey unto the said assignee, its successors and assigns, the entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the

priority of sald application in all foreign countries in accordance with the international Convention, the same to be held and enjoyed by said assignee, its successors and assigne, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind our heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

IN WITNE	SWHEREOF, we have hereunto set our hands and seals on this	
day of		
	Jang wan Moon Sung how Km Sung-hoon Kim	
	Sing hom Kin	
	Kyoung Ho Kim Kyoung-ho Kim	
	Joing Youl Kim	
	Ho-young Song	
Witnessed by:		
Date	· · · · · · · · · · · · · · · · · · ·	
D		